

From owner-qrp-1@netcom.com Tue Apr 18 22:36:32 1995
From: Byron8LCZ@aol.com
Date: Tue, 18 Apr 1995 14:08:09 -0400
Message-Id: <950418140703_87362515@aol.com>
Subject: Re: 30m QRP

How about a new portion of 20 meters for QRP CW signals only, 10 khz should do it ! Maybe around 14.100 - 110 ?

72, Byron WA8LCZ Detroit

From owner-qrp-1@netcom.com Tue Apr 18 20:21:24 1995
Date: Tue, 18 Apr 1995 13:00:32 -0700 (PDT)
From: Monte Stark <ku7y@sage.dri.edu>
Subject: 40a Filter Bandwidth
Message-Id: <Pine.SUN.3.90.950418124936.5487A-100000@nimbus>

OK gang,

Here is the info. I did this last night and have checked it over but still may have missed something. What this does is replace the caps in the filter with diodes and add the power source to change the value of the diodes.

NorCal 40a Variable Bandwidth Xtal Filter Mod.

Monte "Ron" Stark, KU7Y
285 W. 4th Ave
Sun Valley, NV 89433
ku7y@sage.dri.edu

The NorCal 40a is a very nice radio. One of the things I like about it is that you can do so much with it. I have added an AF volume control (which Wayne keeps saying I don't need!), and a keyer. The keyer is based on the Curtis 8044ABC chip. So far, so good.

Good radio and I could have left it just like it was. But what the heck, why not look for things to keep making it better?

Wayne Burdick E-Mailed this idea to me awhile back and yesterday I got around to trying it. What is it? How about making the xtal filter a variable bandwidth filter? Take four resistors, three diodes, one capacitor and mix with a little solder, wire and a few minutes of your time and presto, you have a nice working variable

bandwidth filter in your 40a. I haven't measured the response of the modified filter but judging by the seat of my pants I would say it goes from over 1 Khz to about 100 Hz. In the wide position you can hear both sides of a signal. In the narrow position all you hear is the station you are listening to. Wayne is using a similar system in his Sierra with good luck.

Parts needed: 3 ea. MVAM108 Varactor diodes. (I got mine from Newark Electronics).
3 ea. 100K 1/8W Resistors
1 ea. 10K Linear Taper Pot
1 ea. .1 uF Capacitor

Now comes the fun part. You will need to drill a hole in either the front or rear panel. I chose the front because there isn't any more room on the back on of mine.

1. First remove C10, C11 and C12. These will not be reused. Use care in doing the removal. This is a high quality board but with enough abuse it could be damaged! If you have a hard time getting things off boards, cut the leads and then remove the lead. Clean the holes with a solder sucker and or solder wick.

2. Install one end of each of the three 100K resistors where the removed capacitors connected to the xtals. Connect the free end of these restores to the wiper of the 10K pot.

3. Connect one end of the 10K pot to ground. I used a piece of wire from the pot to the ground hole of C12.

4. Connect the .1 uF capacitor between the wiper and the ground end of the 10K pot.

5. Connect the other end of the 10K pot to the regulated 8vdc. I connected a wire from the pot to R20. Use the end of R20 that is facing away from the front panel. DO NOT connect to the R17 side.

6. I chose to mount the diodes on the bottom. Mount them where the original capacitors were located. Connect the cathode to the xtals and the anode to ground. Use the picture in the 40a manual to orient the diodes correctly.

Do the normal checking for solder bridges etc. Then fire it up. I took the time to realign the whole rig. Then I started playing with it. Wow, what a rig. I leave the filter wide while tuning and calling cq. Then, while in qso, I narrow it down until it seems right! The more qrm the narrower I go!

=====

7.3 de Michael aa0ub	QRP:
miker@cc.com	Norcal #857 A large but quiet force.

=====

From owner-qrp-1@netcom.com Tue Apr 18 23:24:19 1995
Date: Tue, 18 Apr 1995 12:58:50 -0400 (EDT)
From: Jim Stafford-W4QO <w4qo@america.net>
Subject: Re: Cheap Easy Keyer?
Message-Id: <Pine.SV4.3.91.950418125157.18720A-100000@atl1.america.net>

Ten-Tec has a keyer kit listed in their catalog for \$9.00. It is for single key paddles, i.e. non-iambic. The part number is 1553. It includes speed control + weight control (which I find to be very useful especially on some qrp rigs(i.e. HW-9)) and sidetone pitch.

In fact, I think I'll get one at Dayton if someone has them or order one later. There is a \$15 min and \$5 shipping, so you may want to order the 10 db/1.5 watt utility amp (#1550) for \$8 or the active antenna (#1552) for \$12 at the same time. Both of these kits are useful to QRPers. Plus the Regenerative shortwave receiver has been mentioned on Internet in the past. It is part #1054 and is \$17.

73/72/jim/w4qo

From owner-qrp-1@netcom.com Tue Apr 18 10:07:24 1995
Message-Id: <199504181252.IAA04301@jfwhome.funhouse.com>
Subject: Re: Colorburst QRP ?
Date: Tue, 18 Apr 1995 08:52:50 -0400
From: "John F. Woods" <jfw@jfwhome.funhouse.com>

Has anyone used what I call "coherent CW" ; that is using
(again - low cost) TV colorburst PLL to send coherent CW ?
(based on a national TV network broadcast atomic clock
standard, there should be a 20 db improvement in CW S/N.)

A quick note: there *is* no "national TV network broadcast atomic clock standard". All the local stations have been using resynchronizing equipment for many years now. (Stations used to have atomic clocks they synchronized to the broadcast networks, but genlocking equipment is much, much cheaper, and much of their programming is now from tape.)

A while back there was an article in Communications Quarterly about using WWVL for locking coherent CW on the LOWFER band. This yielded a bit rate of a couple of bits per *day* as I recall, but the filtering bandwidth was

phenomenally narrow.

From owner-qrp-l@netcom.com Tue Apr 18 16:54:29 1995
Date: Tue, 18 Apr 1995 13:11:41 -0400 (EDT)
From: Jim Stafford-W4QO <w4qo@america.net>
Subject: Dayton Forums
Message-Id: <Pine.SV4.3.91.950418130338.19807A@atl11.america.net>

Can someone post the date/times for the qrp forums and other activities at Dayton? I believe there is a forum (per earlier announcement) at 3PM Friday with George Dobbs et al but I don't know when the others are. I think there is a pizza party Friday evening and I have tickets to the Saturday evening dinner. Altho I can't make it - isn't there something Thursday evening?

BTW, Myron called yesterday and we got a room at the Days Inn - Dayton South from a cancellation! CU all there.

Jim Stafford, W4QO	RadioActive Schools(sm) -
11395 West Road	Using amateur radio as
Roswell, GA 30075-2122	a teaching tool in north
404-993-9500	Georgia area schools.
Packet:W4QO@WA4BRO.#atl.ga.usa.na	Internet: w4qo@america.net

From owner-qrp-l@netcom.com Tue Apr 18 16:57:51 1995
Date: Tue, 18 Apr 95 09:04:36 cst
From: gmarcus@tmdeccsmtp.redstone.army.mil
Message-Id: <9503187982.AA798221202@tmdeccsmtp.redstone.army.mil>
Subject: DIGIVFO - May QST

Has anyone on the net successfully FTP'd the control software for the DIGIVFO project featured in the May QST? The article indicated that the files are available from the ARRL FTP site at oak.oakland.edu in the single archive file DIGIVFO.ZIP. Unfortunately, I could not find it.

With appropriate filtering and phase splitting, the DIGIVFO may make a nice addition to my R2/T2 rig. Before I order the parts or kit, I would like to have a peek at the control software.

Gene W3PM/GM4YRE
w3pm@amsat.org

From owner-qrp-l@netcom.com Tue Apr 18 17:50:17 1995

Message-Id: <199504181737.NAA05113@jfwhome.funhouse.com>
Subject: Re: DIGIVFO - May QST
Date: Tue, 18 Apr 1995 13:37:23 -0400
From: "John F. Woods" <jfw@jfwhome.funhouse.com>

oak.oakland.edu has a file in the root of the ftp hierarchy named "Index-byname" that shows everything available (use binary mode and grab it as Index-byname.gz if you have gzip, it compresses extremely well and is tremendously bulky otherwise).

The digivfo stuff does not appear to be there yet.

From owner-qrp-1@netcom.com Tue Apr 18 22:27:34 1995
Message-Id: <199504181657.JAA13253@holonet.net>
Subject: Re: DIGIVFO - May QST
Date: Tue, 18 Apr 95 9:57:06 PDT
From: John Seboldt <rohrwerk@holonet.net>

> With appropriate filtering and phase splitting, the DIGIVFO may make a
> nice addition to my R2/T2 rig. Before I order the parts or kit, I
> would like to have a peek at the control software.

Seems nice and slick. But with so many close-in spurs at 70 dB down, you might be asking for lots of received birdies. And the noise level will probably exceed the noise floor of the receiver. In other words, it's handy for casual use, but you might not like it in a crowded band at contest time! It limits the performance of a rig like the R2.

The best way to clean it up is probably with a carefully-designed PLL, like that Rohde design a few months ago. Sure, it's complicated.

Or keep an analog VFO as a backup!

John Seboldt
Rohrwerk@holonet.net
soon to change to
rohrwerk@netcom.com

From owner-qrp-1@netcom.com Wed Apr 19 00:54:10 1995
Date: Tue, 18 Apr 1995 11:43:49 +0800
From: Raymond.Anderson@Eng.Sun.COM (Ray Anderson)
Message-Id: <9504181843.AA16425@radium.Eng.Sun.COM>
Subject: Re: DIGIVFO - May QST

>
> Has anyone on the net successfully FTP'd the control software for the
> DIGIVFO project featured in the May QST? The article indicated that

> the files are available from the ARRL FTP site at oak.oakland.edu in
> the single archive file DIGIVFO.ZIP. Unfortunately, I could not find
> it.
>
> With appropriate filtering and phase splitting, the DIGIVFO may make a
> nice addition to my R2/T2 rig. Before I order the parts or kit, I
> would like to have a peek at the control software.
>
> Gene W3PM/GM4YRE
> w3pm@amsat.org
>

The file doesn't appear to be on either oak.oakland.edu or
ftp.cs.buffalo.edu yet. I've noticed that the ARRL really drags their feet
about putting files referenced in QST or QEX on the net. The last time I was
looking for a referenced executable it took about 3 weeks for it to show
up after the related article was published. It may be on their dial-up BBS
already but I haven't been motivated enough to make a long distance phone call
to find out.

I agree, that little unit may have possibilities as far as
the R2/T2 phasing rig goes.

72 de WB6TPU Ray
raymonda@radium.eng.sun.com

From owner-qrp-l@netcom.com Tue Apr 18 09:46:22 1995
Message-Id: <2f9319e8.pandora@pandora.lugs.po.my>
Date: Tue, 18 Apr 1995 09:46:14 +0800
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.po.my>
Subject: Gel Cell!

Hi Gang,

Guess what! I picked up a freebie yesterday at our ARC council meeting.
I saw a couple of brand new gel cells lying on the floor in the meeting and
asked if I could have one, and I got it! The thing is rather big, maybe 1/2 the
size of a normal car battery but much lighter. It puts out 12V at 22Ah. That's
right! 22Ah, and I got it brand new for free. This is great. Now I gotta build
me a nice charger for it using the UC3909 charger IC. This should prove to be
interesting.... too bad sending it over to the US would be too expensive. Boy
am I gonna have fun... I can even power my QRO rig with this battery.

73 de 9V1ZV Daniel

--

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+-----+
| Daniel Wee | daniel@pandora.lugs.po.my |
| 9V1ZV      | daniel.wee@f516.n600.z6.fidonet.org |
```

| UUCP1.12j | Packet: 9V1ZV @ 9V1VS.SGP.AS -- |
+-----+-----+-----+-----+-----+-----+

From owner-qrp-1@netcom.com Tue Apr 18 09:00:38 1995
Date: Tue, 18 Apr 1995 09:07:11 -0230
Message-Id: <199504181137.JAA25862@public.compusult.nf.ca>
From: rgobrick@public.compusult.nf.ca (Robert J. Gobrick)
Subject: Re: Homebrewing your own transistors

Derry,

These tall tales are getting tall - the next we'll hear is that potential
qrpers would eat oatmeal for breakfast every morning so they would be able
to get that Quaker oatmeal box as a coil form....

73 72 Bob VO1DRB/WA6ERB

>
>Using 1N34 diodes? That's cheating a bit! In the "olden days" I used
>to spend much time in the "coal shed" breaking up large lumps to find a
>fragment of crystalline material (Galena I presume) on which to find a
>"sensitive spot" with a "cat's whisker"! But then.....
>
>72 Derry VE7QK
>
>

From owner-qrp-1@netcom.com Tue Apr 18 10:40:17 1995
Message-Id: <199504181301.JAA04350@jfwhome.funhouse.com>
Subject: Re: Homebrewing your own transistors
Date: Tue, 18 Apr 1995 09:01:02 -0400
From: "John F. Woods" <jfw@jfwhome.funhouse.com>

> These tall tales are getting tall -

Though you wouldn't (I hope!) find galena (lead sulfide) in the coal shed,
a lot of people really did use it for diodes. The "2N34" transistor sounds
a bit farfetched, but not quite -- after all, that's how they actually built
the first transistors!

> the next we'll hear is that potential
> qrpers would eat oatmeal for breakfast every morning so they would be able
> to get that Quaker oatmeal box as a coil form....

What, doesn't EVERYONE? Hmmm, time for breakfast!

HI ES 72,
John, WB7EEL

From owner-qrp-1@netcom.com Tue Apr 18 12:21:19 1995
Date: Mon, 17 Apr 1995 13:39:09 -0600 (MDT)
From: Rick Zabrodski <zabrodsk@med.ucalgary.ca>
Subject: HW9 BA 244 diode question
Message-Id: <Pine.SUN.3.91.950417133620.1186D-100000@ume>

Figured out why my "home brew after market" WARC modification does not work.
I naively substituted in 914 diodes for the BA 244 ones.....what are
they?....I see no such beast listed in the
ARRL handbook!

Dr. Rick Zabrodski BSc, MD, CCFP(E) * VE6GK
Email: zabrodsk@med.ucalgary.ca * NorCal 519 ARCI 7099 GQRP 8329
Phone 403-271-5123 Fax 403-225-1276 * "Power is no substitute for skill"

From owner-qrp-1@netcom.com Tue Apr 18 22:31:15 1995
From: LVE1@inel.gov
Message-Id: <9504181833.AA15073@garnet.inel.gov>
Date: Tue, 18 Apr 1995 12:33:40 -0600
Subject: Re: HW9 BA 244 diode question

>Figured out why my "home brew after market" WARC modification does not work.
>I naively substituted in 914 diodes for the BA 244 ones.....what are
>they?....I see no such beast listed in the
>ARRL handbook!
>

According to my 1976 SEMICONDUCTOR D.A.T.A.BOOK --

VHF Switch: VBR 20V min; C 2.0pF max @ 15V; RS 0.5 Ohm max @10mA; LS 2.5nH typ.

It would appear to be similar to a PIN switching diode, but it is not listed
as a PIN type. What's it used for in the HW9? If its used to switch xtals,
band-pass filters, or some such, I would think that a 1N914 would at least
sort-of work (might detune something slightly, tho).

72, Larry W1HUE/7

From owner-qrp-1@netcom.com Tue Apr 18 19:46:38 1995
From: rohrwerk@netcom.com (John Seboldt)
Message-Id: <199504182123.0AA09308@netcom20.netcom.com>
Subject: New address

Date: Tue, 18 Apr 1995 14:23:44 -0700 (PDT)

Here I am, friends, with a new address on Netcom:

rohrwerk@netcom.com

```
: John Seboldt  rohrwerk@holonet.net /   I am Bach of Borg...  
: Amateur radio K0JD...                /   your style will be  
: Church of the Annunciation,          /   assimilated.  
: Minneapolis                /
```

From owner-qrp-1@netcom.com Tue Apr 18 14:28:55 1995

Message-Id: <199504181613.JAA12493@holonet.net>

Subject: New Netcom address!

Date: Tue, 18 Apr 95 9:13:52 PDT

From: John Seboldt <rohrwerk@holonet.net>

By 7 pm tonight, I should have a new address:

rohrwerk@netcom.com

Yes, I've finally seen the light to go with a flat rate provider now that they have local access!

John Seboldt

rohrwerk@holonet.net (for a few more days until I make sure my lists are successfully unsubscribed!)

From owner-qrp-1@netcom.com Tue Apr 18 11:18:58 1995

From: "Tim Stabler" <TSTABLER@iunhaw1.iun.indiana.edu>

Date: Tue, 18 Apr 1995 09:21:47 CST

Subject: nn1g and keyers

Message-Id: <241EC18CC@iunhaw1.iun.indiana.edu>

Got the boards from FAR for the NN1G Mark III that is in the 1995 Handbook. Boards are very nice and SILKSCREENED. Have been reading all the recent comments here but still think the first is going to be for 20.

By the way, according to everything I have seen, these boards were designed 11 and 12/94. So they are new.

Also got the FAR listing of boards. He has changed his listing so boards are listed according to what they are--receivers, transmitters, transceivers, amplifiers, etc. Little easier if you

are looking for a particular thing and not sure where it was published.

Saw comments here about cheap keyers. The IC from Mouser, as I remember, is about \$20. For that amount from FAR, you can get the IC, the board and IC socket (I think--I do not have the FAR listing here at work with me. I do have to work, not daydream about rigs). For me, that would be the way to go. Am thinking about this to go along with the Mark III.

72 & 73 de Tim WB9NLZ

From owner-qrp-1@netcom.com Tue Apr 18 18:43:33 1995
Date: Tue, 18 Apr 95 12:21:48 cst
From: gmarcus@tmdeccsmtp.redstone.army.mil
Message-Id: <9503187982.AA798233190@tmdeccsmtp.redstone.army.mil>
Subject: Re[2]: DIGIVFO - May QST

>Seems nice and slick. But with so many close-in spurs at 70 dB down, you
>might be asking for lots of received birdies. And the noise level will
>probably exceed the noise floor of the receiver. In other words, it's
>handy for casual use, but you might not like it in a crowded band at
>contest time! It limits the performance of a rig like the R2.

>John Seboldt
>Rohrwerk@holonet.net
>soon to change to
>rohrwerk@netcom.com

This is a good point that I did not consider. Thanks for your input John.

Gene W3PM/GM4YRE
w3pm@amsat.org

From owner-qrp-1@netcom.com Tue Apr 18 12:45:52 1995
Date: Tue, 18 Apr 1995 08:36:33 -0600
Message-Id: <199504181436.AA05153@teal.csn.org>
From: bcutter@teal.csn.net (Bob Cutter)
Subject: The QRP Band

My best QRP experience has been on 20M. The travel/backpack rig was for years a VXO with crystals on 14.010 and 14.060, I was generally able to find plenty of action on one or both of those frequencies +/- 3. Most of my

operating was in daylight or early evening but I often found something on 20 late into the night. The later is cycle dependent of course.

72, Bob KI0G

From owner-qrp-l@netcom.com Tue Apr 18 10:15:47 1995
Date: Tue, 18 Apr 1995 08:28:41 -0400 (EDT)
From: Joseph White <jhw@es.rti.org>
Subject: Wanted, Manual for Ballentine 5500A Counter
Message-Id: <Pine.ULT.3.90.950418082021.3428B-100000@ranger>

I bought this counter for use with QRP rigs and that's why I'm posting here :-). Actually, I lost access to the newsgroups (which is where I should post this).

Anyway, I picked up a Ballentine 5500A counter at a recent 'fest. It is in need of minor repair but I need at least a schematic to be able to work on it. Can someone steer me toward a reasonable source for old manuals that don't cost as much as the instrument they describe? (I paid \$45 for the counter. Tucker wants \$30 for a manual). Or better yet, would anyone happen to have one of these that they would be willing to copy and send to me (reimbursed for your costs, of course)?

-joe
WA4GIR

From owner-qrp-l@netcom.com Tue Apr 18 20:16:05 1995
Date: Sun, 16 Apr 1995 19:33:43 -0600 (MDT)
From: Rick Zabrodski <zabrodsk@med.ucalgary.ca>
Subject: Which Qrp ACRI number?
Message-Id: <Pine.SUN.3.91.950416192841.28476E@ume>

When I let my membership lapse I thought I had got the same number again when I renewed. Going through my "stuff" today and note I have two certificates, one is 7650, the other 7099....which one is the real me? Are they both me? Does anybody care?
Most important: which would be easier to copy in a contest through the qrm and qrn and qsb (ie. last weekend!)?

Dr. Rick Zabrodski BSc, MD, CCFP(E) * VE6GK
Email: zabrodsk@med.ucalgary.ca * NorCal 519 ARCI 7099 GQRP 8329
Phone 403-271-5123 Fax 403-225-1276 * "Power is no substitute for skill"

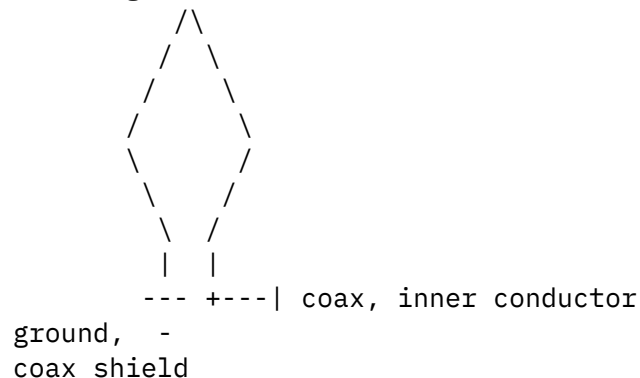
From owner-qrp-l@netcom.com Tue Apr 18 09:45:56 1995

Date: Tue, 18 Apr 1995 14:59:48 PDT
From: Willibald Kraml <kraml@topics.co.at>
Subject: Re: Your attic loop project
Message-Id: <ECS9504181448C@topics.co.at>

On 13 Apr 1995 19:59:20 -0600 rohre wrote:

> From: rohre <rohre@arlut.utexas.edu>
> Date: 13 Apr 1995 19:59:20 -0600
> Subject: Your attic loop project
> To: Ivan EI4HP <IMCCAFFREYx@FAB10.intel.com>, qrp-1 <qrp-1@netcom.com>
>
> Ivan,
> Here is a reference on loops: HF Antenna Collection, by RSGB, Erwin David,
> G4LQI editor. From Radcom, May 74, by L.V. Mayhead, G3AQC, Loop Antennas close
> to the ground. This starts on pg. 146 of the collection book. You can feed
> at a corner with 75 ohm coax, directly he finds; and lowest angle with loop
> delta shape point down, with feed at one upper corner. Usual loop formula, 1005
> over freq in MHz for one wave of wire, in ft., in the delta loop. You may need
> a balun. They say some of these are 180 ohms for radiation resistance, but gave
> low SWR close to ground, as an attic might. Worth a try! Please post your
> results! He tried all other Delta configurations to find which gave the low
> angle DX. (I would imagine from my experiments with attic horizontal dipoles,
> that the length may be affected by being enclosed by roof. Try the regular
> formula, and add or cut to get to desired freq.)
> -72, Stuart K5KVH

Has anyone some experiences with such a loop grounded on one leg? I mean a feeder system which looks like the following:



As the grounding is at a point of low voltage, this should work in my opinion.
This

should also allow to feed the antenna at 1/2 of frequency, working as a groundplane
(half of a folded dipole, a bit funny shaped - should increase bandwidth ...?)

What are your ideas? Unfortunately I do not have a program to model such a beast (eg NEC, Mininec or such), perhaps one of you could try this out. I would like to erect such an antenna within the next couple weeks, with 86 m total length, I hope to use it for 160 - 10 m !

Have fun and let me know what you think about it!

Willi. OE3WKL

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Willibald Kraml - kraml@topics.co.at
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